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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of
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**Complete if Known**

Application Number	10/825,643
Filing Date	4/15/2004
First Named Inventor	Mohammad R. Marzabadi
Art Unit	<del>4614</del> 1624
Examiner Name	Not Yet Known
Attorney Docket Number	62524-AA

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
DR		WO 00/06565 A1	02-10-2000			
DR		WO 00/25770 A1	05-11-2000			
DR		WO 98/33791 A1	08-06-1998			
DR		WO 98/19998 A2	05-14-1998			
DR		WO 98/03494 A1	01-29-1998			

Examiner Signature	/Deepak Rao/	Date Considered	06/22/2006
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

2

of

3

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		US-			
		US-			
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DR		WO 96/14846 A1	05-23-1996			
DR		EP 0 921 125 B1	06-09-1999			
DR		EP 0 444 546 B1	09-04-1991			

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/825,643
				Filing Date	4/15/2004
				First Named Inventor	Mohammad R. Marzabadi
				Art Unit	<del>4614</del> 1624
				Examiner Name	Not Yet Known
Sheet	3	of	3	Attorney Docket Number	62524-AA

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DR		FONTENLA, J.A. et al., Journal of Medicinal Chemistry. (1994) 37(16): 2564-2573	<input type="checkbox"/>
DR		MURALI DHAR, T.G. et al., Journal of Medicinal Chemistry. (1999) 42(23): 4778-4793	<input type="checkbox"/>
DR		NISHIKAWA, T. et al., Arzneimittel Forschung/Drug Research. (1996) 46(Part II), (No. 9): 875-878	<input type="checkbox"/>
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Examiner Signature	/Deepak Rao/	Date Considered	06/22/2006
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Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
62524-AA/JPW/MJWU.S. Serial No.  
~~Not Yet Known~~INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)Applicants:  
Mohammad R. Marzabadi, et al.

10/825,643

Filing Date:  
Herewith 4/15/04Group Art Unit:  
1624

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
DR	4 4 3 8 1 1 7	3/20/84	Cherkofsky et al.			
DR	4 6 8 4 6 5 5	8/4/87	Atwal, et al.			
DR	4 6 8 4 6 5 6	8/4/87	Atwal, et al.			
DR	4 6 8 4 6 5 3	8/4/87	Taylor, E.C., et al			
DR	4 7 0 3 1 2 0	10/27/87	Press, et al.			
DR	4 7 2 8 6 5 2	3/1/88	Atwal, et al.			
DR	4 8 4 5 2 1 6	7/4/89	Taylor, E.C., et al			
DR	4 8 5 5 3 0 1	8/8/89	Atwal et al.			
DR	4 8 8 2 3 3 4	11/21/89	Shih, et al.			
DR	4 9 0 2 7 9 6	2/20/90	Taylor et al.			
DR	4 9 4 6 8 4 6	8/7/90	Nomura et al.			
DR	5 1 3 4 1 4 5	7/28/92	Brouwer, et al.			
DR	5 1 4 9 8 1 0	9/22/92	Perrior, et al.			
DR	5 2 0 2 3 3 0	4/13/93	Atwal, et al.			
DR	5 2 5 0 5 3 1	10/5/93	Cooper, et al.			
DR	5 2 9 2 7 4 0	3/8/94	Burri, et al.			
DR	5 5 2 1 1 8 9	5/28/96	Boykin, et al.			
DR	5 5 4 1 1 8 6	7/30/96	Breu, et al.			
DR	5 5 0 0 4 2 4	3/19/96	Nagamine, et al.			
DR	5 5 9 4 1 4 1	1/14/97	Yuan, et al.			
DR	5 9 4 2 5 1 7	8/24/99	Nagarathnam, et al.			
DR	6 0 3 7 3 5 4	3/14/00	Patane et al.			
DR	6 2 4 5 7 7 3	6/12/01	Wong et al.			

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
DR	9 2 0 0 7 4 1	1/23/92	PCT				
DR	9 2 1 4 4 5 3	9/3/92	PCT				
DR	9 4 1 0 9 8 9	5/26/94	PCT				
DR	9 4 2 2 8 2 9	10/13/94	PCT				

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06/22/2006

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Applicants: Mohammad R. Marzabadi, et al.  
 Serial No.: Not Yet Known  
 Filed: Herewith  
 For: Selective Melanin Concentrating Hormone-  
 I (MCH1) Receptor Antagonists And Uses  
 Thereof Exhibit A



Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
62524-AA/JPW/MJWU.S. Serial No.  
~~Not Yet Known~~INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)Applicants:  
Mohammad R. Marzabadi, et al.

10/825,643

Filing Date:  
Herewith 4/15/04Group Art Unit:  
1624

## FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No
DR		9	7	4	2	9	5	6	11/20/97	PCT				
DR		9	8	5	1	3	1	1	11/19/98	PCT				
DR		9	9	0	7	6	9	5	2/18/99	PCT				
DR		9	9	4	8	5	3	0	9/30/99	PCT				
DR			1	6	2	2	0	8	11/27/85	EPO				
DR			2	0	4	3	1	7	12/10/86	EPO				
DR			2	3	4	8	3	0	9/2/87	EPO				
DR			2	3	6	9	0	2	9/16/87	EPO				
DR			2	3	7	3	4	7	9/16/87	EPO				
DR			2	8	0	2	2	7	8/31/88	EPO				
DR			4	0	0	6	6	5	12/5/90	EPO				
DR			4	5	9	6	6	6	12/4/91	EPO				
DR			6	2	2	3	6	9	11/2/94	EPO				
DR			6	2	2	3	6	6	11/2/94	EPO				
DR			6	2	7	4	2	7	12/7/94	EPO				
DR		2	6	1	0	6	2	5	8/12/88	French				
DR		5	6	5	9	7	7	8	5/23/81	Japanese				
DR	6	1	2	8	2	3	6	7	12/12/86	Japanese				
DR		6	2	8	7	5	7	4	4/22/87	Japanese				
DR	6	2	2	6	5	2	7	1	11/18/87	Japanese				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DR		U.S. Serial No. 09/899,635, filed July 5, 2001, Lagu, et al;
DR		Atwal, K.S. et al., "Synthesis of Substituted 1,2,3,4- Tetrahydro-6- Methyl-2-Thioxo-5-Pyrimidinecarboxylic Acid Esters," Heterocycles (1987) 26(5): 1189-1192;
DR		Atwal, K. S. et al., "Substituted 1,4-Dihydropyrimidines. 3. Synthesis of Selectively Functionalized 2-Hetero-1,4-dihydropyrimidines," Journal of Organic Chemistry (1989) 54: 5898-5907;
EXAMINER /Deepak Rao/		DATE CONSIDERED 06/22/2006

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Mohammad R. Marzabadi, et al.	
				Filing Date: Herewith 4/15/04	Group Art Unit: 1624
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
DR		Atwal, K. S. et al., Dihydropyrimidines Calcium Channel Blockers: 2-Heterosubstituted 4-aryl-1,4-dihydro-6-methyl-5-pyrimidinecarboxylic Acid Esters as Potent Mimics of Dihydropyridines," <i>Journal of Medicinal Chemistry</i> (1990) 33(5): 1510-1515;			
DR		Atwal, K.S. et al., "Dihydropyrimidines Calcium Channel Blockers. 2. 3-Substituted-4-aryl-1,4-dihydro-6-methyl-5-pyrimidinecarboxylic Acid Esters as Potent Mimics of Dihydropyridines," <i>Journal of Medicinal Chemistry</i> (1990) 33(9):2629-2635;			
DR		Atwal, K. S. et al., "Dihydropyrimidine Calcium Channel Blockers. 3. 3-Carbamoyl-4-aryl-1,2,3,4-tetrahydro-6-methyl-5-pyrimidenecarboxylic Acid Esters as Orally Effective Antihypertensive Agents," <i>Journal of Medicinal Chemistry</i> (1991) 34(2) : 806-811;			
DR		Barrio, et al., "A Direct Method For Preparation of 2-Hydroxyethoxymethyl Derivatives of Guanine, Adenine, and Cytosine," <i>Journal of Medicinal Chemistry</i> (1980) 23(5):572-574;			
DR		Boer, R., et al., "(+)-Niguldipine binds with very high affinity to Ca <sup>2+</sup> channels and to a subtype of $\alpha_1$ -adrenoceptors," <i>European Journal of Pharmacology - Molecular Pharmacology Section</i> (1989) 172: 131-145;			
DR		Brown, et al., "Inhibitors of Bacillus subtilis DNA Polymerase III. 6-(Arylalkylamino)uracils and 6-Anilino-uracils," <i>Journal of Medicinal Chemistry</i> (1997) 20(9): 1186-1189;			
DR		Cho H., Takeuchi Y., Ueda M., and Mizuno A. Regioselective synthesis of N-substituted dihydropyrimidine-2 (1-H) or (3H)-One. <i>Tetrahedron Letters</i> , Vol. 29 (42) : 5405-5408, 1988;			
DR		Cho, H. et al., "Dihydropyrimidines: Novel Calcium Antagonists with Potent and Long-Lasting Vasodilative and Antihypertensive Activity," <i>Journal of Medicinal Chemistry</i> (1989) 32: 2399-2406;			
DR		D'Eletto, R. D. and Javitt, N.B., "Effect of Doxazosin on Cholesterol Synthesis In Cell Culture," <i>Journal of Cardiovascular Pharmacology</i> (1989) 13, Supp. 2: S1-S4;			
DR		Forray et al., "The $\alpha_1$ -Adrenergic Receptor That Mediates Smooth Muscle Contraction in Human Prostate Has The Pharmacological Properties of the Cloned Human $\alpha_{1c}$ Subtype," <i>Molecular Pharmacology</i> (1994) 45: 703-708;			
DR		Khanina, E. L. et al., Alkylation of derivatives of 2-oxo-4-phenyl-6-methyl-1,2,3,4-tetrahydropyrimidine-5-carboxylic acid. <i>Chemical Abstracts</i> 89: 43319 (1978);			
DR		Mamaev, V.P. and Dubovenko, Z.D., Pyrimidines. XXI. 5-Substituted 2-hydroxy-4,6-diphenylpyrimidines. <i>Chemical Abstracts</i> 73: 77187 (1970);			
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>					
DR		McGrath, J. C. et al., "Alpha-Adrenoceptors: A Critical Review," <i>Medicinal Research Reviews</i> (1989) 9(4): 407-553;			
DR		Rovnyak, G. C. et al., "Dihydropyrimidine Calcium Channel Blockers. 4. Basic 3-Substituted-4-aryl-1,4-dihydropyrimidine-5-carboxylic Acid Esters. Potent Antihypertensive Agents," <i>Journal of Medicinal Chemistry</i> (1992) 35(17): 3254-3263;			
DR		Spiers, J. P. et al., "UK-52,046 (A Novel $\alpha_1$ -Adrenoceptor Antagonist) and the Role of $\alpha$ -Adrenoceptor Stimulation and Blockade on Atrioventricular Conduction," <i>Journal of Cardiovascular Pharmacology</i> (1990) 16(5): 824-830;			
DR		Triggle, D. J., "Dihydropyrimidine Calcium Channel Blockers. 2.3-Substituted 4-Aryl-1, 4-dihydro-6-methyl-5-pyrimidine-Carboxylic Acid Esters as Potent Mimics of Dihydropyridines," <i>Chemtracts-Organic Chemistry</i> (Jan./Feb. 1991) 68-72;			
DR		Wetzel, J. M., et al., "Discovery of $\alpha_{1A}$ -Adrenergic Receptor Antagonists Based on the L-Type $Ca^{2+}$ Channel Antagonist Niguldipine" <i>Journal of Medicinal Chemistry</i> (1995) 38(10): 1579-1581; and			
DR		Zhan, G. L. et al., "Bunazosin Reduces Intraocular Pressure By Increasing Uveoscleral Outflow In Rabbits," <i>Investigative Ophthalmology and Visual Science</i> (1993) 34(4): Abst. No. 1133-49, p. 928.			
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